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S/N: 10/065,773

In the Claims

What is claimed is:

1. (Currently Amended) A bobbin for an inductor assembly comprising:
a molded body having a first end, a second end, and a single flange centrally disposed between the first and the second ends, the single flange constructed to directly engage a pair of ferrite cores such that ~~to maintain~~ a uniform gap is formed between a the pair of ferrite cores.
2. (Original) The bobbin of claim 1 wherein the flange includes a pair of ends, each end extending past the molded body.
3. (Original) The bobbin of claim 2 wherein each end of the flange includes a pair of faces, at least one face of each end having an embossed surface.
4. (Original) The bobbin of claim 3 wherein each embossed surface is configured to engage a pole of a ferrite core.
5. (Original) The bobbin of claim 1 wherein the flange has a constant thickness so as to maintain the uniform gap between the pair of ferrite cores.
6. (Original) The bobbin of claim 1 further comprising a protrusion configured to engage a spring clip for securing the pair of ferrite cores to the molded body.
7. (Original) The bobbin of claim 1 further comprising a number of hollow bosses, each hollow boss configured to receive a threaded fastener for mounting the molded body to a mounting plate.
8. (Original) The bobbin of claim 1 wherein the flange is configured to bisect the molded body.
9. (Currently Amended) An inductor assembly comprising:
a pair of ferrite cores;

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S/N: 10/065,773

a plastic bobbin, the bobbin having an embossed flange to maintain a constant gap between the pair of ferrite cores; and

a pair of securing devices oriented transversely to the pair of ferrite cores to secure the pair of ferrite cores to the plastic bobbin.

10. (Original) The inductor assembly of claim 9 wherein the pair of securing devices includes a pair of spring clips, each spring clip designed to engage a molded protrusion on the bobbin to secure the ferrite cores to the bobbin.

11. (Original) The inductor assembly of claim 10 wherein the spring clips are formed of brass to minimize any eddy current heating.

12. (Original) The inductor assembly of claim 9 wherein the ferrite cores have an E-shape.

13. (Original) The inductor assembly of claim 9 wherein each core has a pole piece and the flange maintains the uniform gap between outer poles of the ferrite cores.

14. (Original) The inductor assembly of claim 9 wherein the bobbin includes a number of hollow bosses, each hollow boss configured to receive a screw to mount the inductor assembly to a bracket.

15. (Original) The inductor assembly of claim 9 incorporated into a welding-type device.

16. (Original) A kit for retrofitting an inductor assembly of a welding-type device, the kit comprising:

a pair of ferrite cores;

a molded bobbin having a centrally positioned flange configured to engage opposing faces of the pair of ferrite cores so as to maintain a uniform separation between the pair of ferrite cores; and

a pair of spring clips to secure the pair of ferrite cores to the molded bobbin.

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S/N: 10/065,773

17. (Original) The kit of claim 16 wherein the molded bobbin includes hollow bosses for receiving threaded fasteners to secure the molded bobbin to a mounting plate.

18. (Original) The kit of claim 16 wherein the securing devices are formed of a brass material.

19. (Original) The kit of claim 16 wherein the securing devices are configured to be oriented perpendicular to the molded bobbin.

20. (Original) The kit of claim 16 wherein the bobbin includes a molded body and the flange includes a pair of ends, each end extending past the molded body and having at least one embossed surface configured to engage a portion of a ferrite core so as to maintain the uniform separation between the pair of ferrite cores.

21. (New) A bobbin for an inductor assembly comprising:
a molded body having a first end, a second end, and a single flange centrally disposed between the first and the second ends to maintain a uniform gap between a pair of ferrite cores, the single flange having a pair of ends, each end extending past the molded body and including a pair of faces, at least one face of each end having an embossed surface.

22. (New) The bobbin of claim 21 wherein each embossed surface is configured to engage a pole of a ferrite core.